



Microwave and Antenna System in Medical Applications

Guest Editors:

Dr. Hoi-Shun Antony Lui

Global Big Data Technologies Centre, School of Electrical and Data Engineering, University of Technology Sydney, Level 6, Building 11, 81 Broadway, Ultimo, NSW 2007, Australia

Prof. Dr. Mikael Persson

Head of Division of Signal Processing and Biomedical Engineering, Department of Electrical Engineering, Chalmers University of Technology, SE-41296 Gothenburg, Sweden

Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Sensors* aims at reporting the latest research findings on microwave and antenna technologies in medical applications.

The non-ionizing nature of microwave radiation and low-cost microwave electronics offers innovative solutions for medical diagnosis, treatment, and health monitoring. Electromagnetics and signal processing researchers are working collaboratively with medical practitioners to develop next-generation healthcare technologies. The recent boom in artificial intelligence (AI) and machine learning (ML) offers new avenues which accelerate technical development, particularly in signal processing and imaging. Although the recent focus is mostly on AI and ML, reliable medical solutions cannot be established without having a high-quality microwave and antenna system capturing the RF signals.

The scope of this Special Issue includes microwave and antenna systems that can be applied in medical diagnosis, health monitoring, ablation, and hyperthermia. Contributions toward system development, methodologies and algorithms with medical-oriented applications in mind are welcome.





sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)